

L 6301-65 EWT(1) IJP(c)

ACCESSION NR: AR5012225

UR/0058/65/000/003/D013/D013

6c

37

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SOURCE: Ref. zh. Fizika. Abs. 3D81

AUTHOR: Slobod, N.N.; Antropov, Ye.T.; Gippius, Ye.P.; Dronov, A. P.; Krindach, N.I.; Kudryavtsev, Ye.M.; Lechenov, A.M.; Sviridov, A.G.; Tunitskiy, L.N.; Fayzullov, F.S.; Cherevatinov, V. P.

TITLE: Experimental determination of electronic oscillator strengths of diatomic molecules

CITED SOURCE: Tr. Konf. po spektroskopii. AN SSSR, vyp. 1, 1964, 64-81

TOPIC TAGS: oscillator strength, electron oscillator, diatomic molecule, shock wave, oxygen, nitric oxide, cyan, electronic spectrum

TRANSLATION: To determine the oscillator strengths of electronic transitions of diatomic molecules, an experimental method was developed, based on the measurement of the absorption of gas behind a shock wave reflected from the end of a shock tube. By varying the velocity of the incident shock wave and by calculating the state of the gas behind the shock wave, it is possible to determine the temperature and the concentration that the molecules behind the reflected

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ACCESSION NR: AR5012225

shock wave must have to permit determination of the oscillator strengths from the measured absorption. The theoretically obtained temperature was monitored by two experimental methods. A method was also developed for determining the oscillator strengths from the study of the gas behind the shock wave; these strengths were determined for the Schumann-Runge bands of oxygen, the beta and gamma systems of nitric oxide, the violet band system of O₂, and the O₂ Swan bands.

SUB CODE: KW, ME

ENCL: 00

Card 2/2

ACCESSION NR: AP4000402

S/0294/63/001/001/0073/0084

AUTHORS: Kudryavtsev, Ye. M.; Ginnius, Ye. F.; Pechenov, A. N.; Sobolev, N. N.

TITLE: Determination of the matrix element in the dipole moment of electron transfers in the cyanogen violet spectrum. Part 1

SOURCE: Teplofizika vysokikh temperatur, v. 1, no. 1, 1963, 73-84

TOPIC TAGS: cyanogen, carbon monoxide, nitrogen, shock wave, high temperature, radiative heat transfer, cyanogen spectrum, spectral line reversal, spectroscopy, supersonic aerodynamics; violet band, electron transfer, dipole moment, matrix element, absorption spectrum, radiative heat exchange, heat exchange, heat transfer, shock wave heating, shock tube, violet band system, reflected shock wave

ABSTRACT: In view of the uncertainty in the value of $|R_e|^2$ (the square of the electron transition dipole moment matrix element) for

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ACCESSION NR: AP4000402

the violet cyanogen spectrum, and in view of a recent development of a new method for determining this quantity in the Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR) by measuring the absorption of light in gas behind a reflected shock wave, new measurements of $|R_e|^2$ have been set up by this method, with the CN radicals obtained by heating a mixture of CO and N_2 by a reflected shock wave. It was established that by transmitting pulsed light through a mixture of CO and N_2 heated to 5,000--7,000°K by the reflected shock wave, it is possible to register the absorption spectrum of the violet CN band system, and determine the value of $|R_e|^2$ of this system. To choose the optimal experimental condition and to obtain the data necessary for the data reduction, the states of the CO and N_2 mixture behind the reflected shock wave were calculated over a wide range of initial pressures (10--200 mm Hg) and of shock-wave velocities (2.0--5.6 km/sec). The temperature of the mixture

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was measured by a generalized method of inversion relative to the CN bands, which was also used to monitor the fact that the CN concentration is in equilibrium. The shock tube employed was described by the authors previously (Optika i spektroskopiya, v. 8, 585, 761, 1960). It is concluded that the most suitable conditions for the described experiment are those with $T_5 \geq 4800^{\circ}\text{K}$ (i.e., $p_1 = 100, 50, 25 \text{ mm Hg}$). The final results of the experiments will be reported in future articles. "In conclusion the authors are grateful to A. T. Matachun and L. L. Sabsovich for programming and solving the problem with the electronic computer, to A. A. Sapronov for developing the electronic apparatus, and to G. I. Dronova and I. M. Kholinov for help with the work." Orig. art. has: 9 figures, 2 formulas, and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR
(Physics Institute AN SSSR)

Card 3/4

BASOV, N.G.; LOGDANKEVICH, O.V.; PECHENOV, A.N.; ABDULAYEV, G.B.; AKHUNDOV,
G.A.; SALAYEV, E.Yu.

Radiation in a GaSe single crystal induced by fast electrons.
Dokl. AN SSSR 161 no.5:1059 Ap '65. (MIRA 18:5)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR i Institut
fiziki AN AzerSSR. 2. Chlen-korrespondent AN SSSR (for Basov).

ACCESSION NR: AF4017717

S/0294/63/001/003/0376/0385

AUTHORS: Kudryavtsev, Ye. M.; Gippius, Ye. F.; Derbeneva, S. S.;
Pechenov, A. N.; Sobolev, N. N.

TITLE: Determination of the matrix element of the dipole moment of
the electronic transition of the cyan violet band system. III

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 3, 1963, 376-385

TOPIC TAGS: cyan, cyan band system, cyan violet band system, dipole
moment, matrix element, integral absorption exponent, internuclear
distance, dissociation energy, electronic transition

ABSTRACT: This is a continuation of previously reported research
(Teplofizika vy*sokikh temperatur v. 1, 73 and 218, 1963) and is
devoted to the actual determination of the square of the matrix ele-
ment of the dipole moment of the electronic transition $|R_e|^2$ from
the measured integral absorption exponents of the rotational line of

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ACCESSION NR: AP4017717

the sequences $\Delta v = 0$ and $\Delta v = -1$ of the violet system of CN bands. The value obtained for the $|R_e|^2$ was found to be 0.38 atomic units and to be independent of the internuclear distance of the transitions. The over-all error in the measurements due to imperfections in the spectral instrument and failure to take complete account of the skirts of the lines is less than 10%, since the half-width of the rotational line exceeds or is equal to the half-width of the apparatus function under the experimental conditions. The value obtained for $|R_e|^2$ is in satisfactory agreement with the values obtained earlier by other methods. A value of 7.6 eV is obtained for the dissociation energy of CN from the present results and those by others. Orig. art. has: 6 figures, 7 formulas, and 3 tables.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR
(Physics Institute, AN SSSR)

Card 2/²

GULY, M.P., akademik; PEDORCHENKO, Ye.Ya.; PECHENCOVA, T.N.; KARABASHEV, V.A.;
CHEVPOLO, I.A.; PROHINK, Z.V.; ZHURAVLEV, N.Y.; KOSTYUK, D.P.

Activation of amino acids with the formation of inorganic
phosphates in animal tissues. Dokl. AN SSSR 160, No. 1, p. 100-103,
Jan. 1965.

1. Institut Biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).
Submitted July 2, 1965.

PECHENOVA, T.N. [Pechonova, T.N.]; GULYY, M.F. [Hulyi, M.F.]

Acetyl phosphate conversion in the animal liver. Ukr. biokhim. zhur.
35 no.4:549-559 '63. (MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

GULYY, M.F., akademik; PECHENOVA, T.N.; MATUSEVICH, L.I.

Mechanisms and enzymes responsible for acetyl phosphate formation
during citric acid transformation in animal tissues. Dokl. AN
SSSR 159 no.6:1415-1418 D '64 (MIRA 18:1)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).

DVORNIKOVA, P.D., PECHENOVА, T.N. [Pechenova, T.M.]

Activity of some glycogenolytic enzymes in various muscles of adult
rabbits and embryos. Ukr.biokhim.zhur. 34 no.1:118-121 1962.
(MIRA)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiyev.

GULYY, M.F. [Hulyi, M.F.]; DVORNIKOVA, P.D.; FEDORCHENKO, Ye.Ya
[Fedorchenko, O.IA.]; PECHENOVA, T.N. [Pechenova, T.M.]

Mechanism of enzyme activation with the interaction of purified proteins. Ukr. biokhim. zhur. 34 no.2:187-198 '62.
(MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences
of the Ukrainian S.S.R., Kiev.

X

GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechonova, T.M.];
DVORNIKOVA, P.D. [Ivornikova, P.D.]

Formation of acetyl phosphate in liver homogenates of animals.
Ukr.biokhim.zhur. 34 no.6:846-852 '62. (MIRA 16:4)

I. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.
(LIVER) (ACETYL PHOSPHATE)

L OF 3-67 A.1(1)

ACC NR: AP6021058 (A, N) SOURCE CODE: UR/0292/66/050/003/0026/0026

AUTHOR: Grishchenko, I. L. (Engineer); Morgunova, I. V. (Engineer);
Pechen'-Pesenko, E. S. (Engineer)

ORG: none

TITLE: Recommendations on the uses of VAO explosionproof motors

SOURCE: Elektrotekhnika, no. 3, 1966, 26-28

TOPIC TAGS: electric motor, explosionproof electric motor, reliable
electric rotating equipment, VAO electric motor

ABSTRACT: It is suggested that series VAO, sizes 3 and 7, 7.5-30-kw
explosionproof motors be used in all types of explosion-hazardous atmospheres.
New regulations require that, in designing explosionproof induction motors, a new
parameter — permissible duration of temperature rise under locked-rotor
conditions — be introduced; this duration must be over 5, or better yet over 10

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UDC: 621.313.13 - 213.4.001.8

L 09533-67

ACC NR: AP6021058

sec. Standard series VAO motors were tested for the above new parameter, and their usage in atmospheres having various degrees of explosion hazard (groups A, B, C, D) is recommended. Data on 15 motor type-sizes is tabulated. Permissible supply-voltage variation, -5 +10%. O.e.g. art. has: 5 formulas and 2 tables.

SUB CODE: 09/1 SUBM DATE: none / ORIG REF: 002

Class: 1

S/032/61/C27/CC3/CC3/C25
B118/B203

AUTHORS:

Nazarchuk, T. N. and Pechentkovskaya, L. Ye.

TITLE:

Colorimetric determination of free carbon in molybdenum and tungsten carbides

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 3, 1961, 256-258

TEXT: The method worked out by the authors is based on the ability of free carbon of adsorbing dyes from their solutions. It was the aim of this investigation to develop a rapid method for practical purposes. First, the authors studied the adsorption of bromthymol blue, methyl orange, methylene blue, and methyl violet to TiC, Cr₃C₂, WC, W₂C, MoC, Mo₂C, ZrC, SiC, and B₄C in the presence of free carbon. It was shown that no dye adsorption took place to tungsten and molybdenum carbides. Favorable dyes were bromthymol blue, methyl orange, methyl violet. An OM-1 (EM-1) photometer was used as measuring instrument. The color intensity before and after adsorption was measured. Further experiments made with carbon black showed that 5 minutes of shaking were sufficient to saturate the carbon black surface with dye. The adsorption of bromthymol blue to carbon black is not sufficient to saturate the carbon black surface.

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S/032/6 /027/CC3/CC3/025

B118/B203

Colorimetric determination ...

fected by the pH in the range of 1-7. No adsorption takes place at pH = 10. On the basis of a calibration (calibration curve), the free carbon content is proportional to the optical density of solutions after adsorption. Prescription: 0.5-1.0 g of Mo- or W-carbide are suspended in 4 ml of glycerin; after adding 5 ml of bromthymol blue solution (21 mg of bromthymol blue per 100 ml of water) and 1 ml of buffer (pH 3; ammonia acetic acid), the substance is shaken for 5 min, and then filtered. 2 ml of the filtrate are mixed with 3 ml of 0.5% NaOH, filled up with water to 10 ml, and measured in a 1 cm thick cuvette at 574 m μ (filter no. 4), and the carbon content is determined from the calibration curve. The determination takes 20-30 min. To check the method, a comparative determination of free carbon in WC and Mo₂C, respectively, was made by the usual gas-volumetric method,

and by determining the free C content in mixtures of purest carbide and carbon black produced by the authors (with defined mixing ratio). Accuracy of the colorimetric method: ~5%. Similar results were obtained with methyl orange (pH = 3, wavelength 496 m μ = filter no. 6), and methyl violet (highly sensitive; wavelength 574 m μ = filter no. 4) in the case of tungsten carbide. Free C in molybdenum carbide and other carbides cannot be determined with

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Colorimetric determination ...

S/032/61/027/003/003/025
B118/B203

the dyes mentioned at last, since the carbides themselves adsorb considerable quantities of them. A paper by N. M. Popova and L. V. Zaslavskaya is mentioned. There are 1 figure, 4 tables, and 4 Soviet-bloc references.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov Akademii nauk USSR (Institute of Powder Metallurgy and Special Alloys of the Academy of Sciences, UkrSSR)

Card 3/3

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; PECHENOVА, T.N. [Pechenova, T.M.]; MARTYNENKO, F.P.

Values of the molecular weight of a mixture of crystalline myogen A and dehydrogenase of d-glyceraldehyde-3-phosphate from the muscles of a rabbit. Ukr. biokhim. zhur. 34 no.3: 327-337 '62. (MIRA 18:5)

1. Institut biokhimii AN UkrSSR, Kiyev.

GULYY, M.F., akademik; PECHENOVA, T.N.; MATUSEVICH, L.I.

Isolation of acetyl phosphate formed in the liver homogenates
following transformation of citric acid. Dokl. AN SSSR 164
no.3:686-687 S '65. (MIRA 18:9)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).

GULYI, M.P. [Hulyi, M.I.]; PECHENOVA, T.N. [Pechonova, T.N.]; MATUSEVICH, L.I. [Matusevych, L.I.]

Mechanism and enzymes of the conversion of citric acid into acyl phosphates in animal tissues. Ukr. Biokhim. zhur. 37 no.1:56-69
1965.

(MIR 18:5)

I. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.

GULYY, M.F., akademik; PECHENOVА, T.N.; DVORNIKOVA, P.D.

Formation of acetyl phosphate in animal liver homogenates.
Dokl. AN SSSR 146 no.4:933-936 O '62. (MIRA 15:11)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR
(for Gulyy).
(LIVER EXTRACT) (PHOSPHATES)

PECHENTKOVSKAYA, L.Ye.; NAZARCHUK, T.N.

Complexometric determination of zinc in iron alloys. Zhur. anal.
Khim. 19 no.7:897-899 '64.

(MIRA 17:11)

l. Institute of Metalloceramics and Special Alloys, Ukrainian
S.S.R. Academy of Sciences, Kiev.

FRANTSEVICH, I.N. [Frantsavych, I.M.]; PECHENTKOVSKIY, Ye.I.
[Pechentkovs'kiy, Ye.I.]

Use of aluminum-zinc-calcium protectors against the corrosion
of marine vessels. Dop.AN URSR no.1:36-39 '60.
(MIRA 13:6)

1. Institut metallokeramiki i spetsplavov AN USSR. 2. Chlen-
korrespondent AN USSR (for Frantsevich).
(Ships, Iron and steel--Corrosion)
(Aluminum-zinc-calcium alloys)

RADOMISEL'SKIY, I.D.; PECHENTKOVSKIY, Ye.L.

Fixed metal dies for the ~~giving~~ of bushings with collars by the
compression method. Porosh. met. 3 no.1:83-92 Ja-F '63.
(MIRA 16:3)

1. Institut metalloceramiki i spetsial'nykh splavov AN UkrSSR.
(Metal powder products) (Dies (Metalworking))

S/226/65/000/001/013/016
E193/E583

AUTHORS: Radomyshel'skiy, I.D. and Pechentkovskiy, Ye.L.
TITLE: A stationary press tool for sizing flanged bushes
by [plastic-deformation in] compression
PERIODICAL: Poroshkovaya metallurgiya, no. 1, 1965, 83 - 92.

TEXT: A detailed description is given of the design and operation of two variants of a press tool for sizing the internal and external diameters of flanged bushes. The design of both variants is based on the application of split dies with an external taper of 15°. The main features of the tool are demonstrated in Fig. 2, showing 1 - washer, 2 - bottom plate, 3 - spring of the guiding head, 4 - rod, 5 - guide bush, 6 - guide column, 7 - press-tool table, 8 - rod, 9 - levelling disc spring, 10 - levelling disc, 11 - split-wedge die, 12 - bottom plunger, 13 - spring, 14 - rod, 15 - upper plate, 16 - lock key, 17 - rod, 18 - side rod, 19 - the part to be sized. 20 - die spring, 21 - mandrel, 22 - covered plate, 23 - spacer, 24 - upper plunger, 25 - guiding head, 26 - plunger spring, 27 - bushing, 28 - press frame, 29 - middle plate. The method of adapting the

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S/226/65/000/001/013/016
E193/E383

A stationary press tool

tool for fully-automated operation is also described.
There are 6 figures.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh
splavov AM USSR (Institute of Powder Metallurgy
and Special Alloys of the AS UkrSSR)

SUBMITTED: March 24, 1962

Card 2/3

RADOMYSEL'SKIY, I.D.; PECHEN'KOVSKIY, Ye.L.

Automatic die for two-layer compaction. Porosh.met. l no.6:
85-89 N.D '61. (MIRA 13:5)

1. Institut metallokeramiki i spetsial'nykh splavov Akad UkrSSR.
(Dies (Metalworking)) (Powder metallurgy)

PECHENTKOVSKYI, YE. L.

21-6-10/22

AUTHORS: Frantsevich, I.N. (I.M.), Member of the AN Ukrainian SSR,
Zhurakhovskiy, A.P. (Zhurakhovs'kyy, O.F.), Pechentkovskiy
(Pechentkovs'kyy), Ye. L.

TITLE: Aluminum-Calcium and Zinc-Calcium Protectors (Alyumokal'-
tsiyevyye i tsinkokal'tsiyevyye protektory)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, No 6, pp 575-
579 (USSR)

ABSTRACT: Protective alloys containing magnesium and aluminum-calcium
compounds were subjected to tests under working conditions.
The underwater part of the tanker "Drogobych" cruising the
Black Sea, which was provided with zinc protectors during the
ship construction, was examined. The results of the tests have
shown the complete failure of zinc protectors due to their de-
activation. Magnesium and aluminum-zinc-calcium protectors
were functioning satisfactorily during the whole period of
tests and ensured complete protection of the structures from
corrosion in sea water. Magnesium protectors of adopted size
were fully destroyed after 25 to 30 days, while the aluminum-
zinc-calcium protectors were worn by only 8 to 10% after 43 to

Card 1/2

PECHENKOVSKIY, Ye.L.

Principles of designing dies for pressing and sizing intricately shaped ceramic metal parts. Porosh. met. 1 no.2:76-~~62~~ Mr-Ap '61.
(MIRA 15:5)

1. Institut metalloceramiki i spetsial'nykh splavov AN USSR.
(DIES (METALWORKING)) (CERAMIC METALS)

S/137/61/000/012/061/149
A006/A101

AUTHOR: Pecheritskii, Ye. L.

TITLE: Principles of designing press-molds for the pressing and calibrating of complex-shaped cermet parts

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 50, abstract
12G349 ("Poroshk. metallurgiya", 1961, no. 2, 76 - 92, English
summary)

TEXT: Information is given on general concepts of designing press-molds
for the pressing of cermet articles. Problems are analyzed pertaining to the fil-
ling of the press-mold hollow, pressing of articles with beads, extrusion of ar-
ticles, automatic press-molds and feeders, materials for the manufacture of press
tools, etc.

R. Andriyevskiy

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[Abstracter's note: Complete translation]

Card 1/1

L 20982-66 EWT(m)/EWP(t) IJP(c) JD/WB

ACCESSION NR: AP5017746

UR/0365/65/001/001/0401/0405

35

32

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AUTHOR: Pechentkovskiy, Ye. L.

TITLE: Test of the application of protectors containing calcium for protection of
seagoing ships

SOURCE: Zashchita metallov, v. 1, no. 4, 1965, 401-405

TOPIC TAGS: sea water corrosion, aluminum base alloy, zinc base alloy, calcium containing alloy, magnesium, electrochemistry, corrosion protection, anodic protection/ATsK-11 alloy, ATsK-12 alloy

ABSTRACT: The article gives results of tests and practical application of alloys based on aluminum or zinc and containing calcium. Composition of the alloys used was as follows: alloy ATsK-11 (in %): aluminum 14.5-18.0, calcium 3.5-4, manganese 0.2-0.3, remainder zinc; alloy ATsK-12: zinc 14.0-18.0, calcium 4.3-5.3, manganese 0.25-0.45, remainder aluminum. The basic protection system consisted of 44 magnesium and 11 aluminum-zinc-calcium protectors, with dimensions of 450x300x70 mm, distributed into nine groups along the hull of the

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ACCESSION NR: AP5017746

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ship. The protective potential varied from 0.94 volts for the sections with magnesium protectors to 0.87 volts for sections with ATsK-11 protectors, with 0.91 volts for sections with ATsK-12 protectors. The anode current density was higher for the magnesium alloy (0.30-0.50 ma/cm²) than for the ATsK alloys (0.09-0.10 ma/cm²). Results indicate that protectors containing calcium practically do not become passive under natural conditions of salt water corrosion. (The life of aluminum-zinc-calcium protectors is 8-10 times greater than that of magnesium protectors, but the current efficiency of these protectors is 3-4 times less than for magnesium alloys.
2/14/85

ASSOCIATION: Institut problem materialovedeniya, AN UkrSSR (Institute of Problems of Materials Management, AN UkrSSR)

SUBMITTED: 08Jan85

ENCL: 00

SUB CODE: MM

NR REF SOV: 007

OTHER: 000

Cord 2/2 MGS

KOROTKORUCHKO, V.P.; PECHENOVA, T.M., studentka

Functional interrelations of xanthine oxidase and aldehyde oxidase.
Ukr.biokhim.zhur. 31 no.5:654-664 '59. (MIRA 13:4)

I. Institut of Biochemistry of the Academy of Sciences of the Ukrainian
S.S.R., Kiev.

(XANTHINE OXIDASE) (ALDEHYDE OXIDASE)

PECHENKOVSKIY, Ye. L.

Using protectors containing calcium for the protection of maps.
Zashch.met. l no.4:401-405 JN-Ag '65.

MIRA 18:8

1. Institut problem materialovedeniya AN UkrSSR.

RADOMYSEL'SKIY, I.D.; LERNER, Yu.N.; PECHENTKOVSKIY, Ye.L.

Automatic die for the molding of flanged bushings. Porosh.met.
2 no.1:75-79 Ja-F '62. (MIRA 15:8)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.
(Dies (Metalworking)) (Powder metallurgy)

NEYBURG, Mariya Pridrikhovna; MENNER, V.V., ovt.red; PECHENYUK, I.L., red.
izd-va; NOVICHKOVA, N.L., tekhn.red

[Frondiferous mosses from Permian deposits of the Angara Land] Listo-
stebel'nye mkh i z Permskikh otlozhenii Angaridy. Moskva, Izd-vo
Akad.nauk SSSR, 1960. 103 p. (Akademija nauk SSSR, Geologicheskij
institut. Trudy, no.19).
(Siberia—Mosses, Fossil)

KREMLEVSKIY, P.P.; PECHENYUK, K.A., inzh., retsenzent; AL'JMOVICH,
A.V., inzh., retsenzent; DOLINSKIY, Ie.P., kand. tekhn.
nauk, red.; PETERSON, M.M., tekhn. red.

[Flowmeters; industrial instruments for measuring the
consumption of liquids, gas and steam] Raskhodomery; pro-
izvodstvennye pribory dlia izmerenija raskhoda zhidkosti,
gaza i para. Moskva, Mashgiz, 1955. 435 p. (MIRA 16:9)
(Steam meters) (Gas meters) (Flowmeters)

I 2018-66

ACCESSION NR: AP5024417

UR/0286/65/000/015/0097/0097

629.1.036.6

AUTHOR: Kabchevskiy, M. I.; Zubakov, M. K.; Pechenyuk, K. A.

TITLE: Attachment for measuring the thrust of a ship's propeller. Class #2,
No. 173462

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 97

TOPIC TAGS: propeller thrust, propeller thrust measurement, ship propeller

ABSTRACT: An Author Certificate has been issued for an attachment for measuring the thrust of a ship's propeller. It consists of an elastic insert and an inductive pickup, the coils of which are connected to a four-arm measuring bridge provided with a visual metering device or recording instrument. To obtain more accurate and stable test data, the elastic insert consists of two joined halves, in the center of which is placed the inductive pickup (see Fig. 1 of the Enclosure).

Orig. art. has: 1 figure.

[GB]

ASSOCIATION: Predpriyatiye gosudarstvennogo komiteta po sudostroitel'noy
promyshlennosti SSSR (Enterprise of the State Committee on the Shipbuilding
Industry, SSSR)

Card 173

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L 2003-66

ACCESSION NR: AP5024417

SUBMITTED: 16Mar64

NO EXP SOV: 000

ENCL: 01

OTHER: 000

O
SUB CODE: PR,EE

ATD PRESS: 415

Card 2/3

L 2008-66

ACCESSION NR: AP5024417

ENCLOSURE - 01

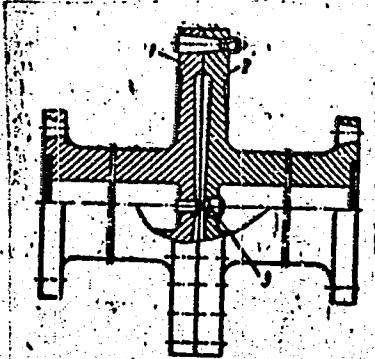


Fig. 1. Propeller thrust measuring attachment

- 1 - First half of the elastic coupling;
2 - second half of the elastic coupling;
3 - inductive pickup.

C-1 3/3 DP

SHRAYBER, L.S.; PECHENYUK, V.G.

Temperature dependence of the density of some organic liquids.
Zhur. fiz. khim. 39 no.2:429-430 F '65. (MIRA 18:4)

1. Saratovskiy gosudarstvennyy universitet.

AUTHOR: Pechenyuk, V.

SOV-107-58-4-1e/57

TITLE: Chronicle (Khronika)

PERIODICAL: Radic, 1958, Nr 4, p 13 (USSR)

ABSTRACT: The author mentions some of the achievements of Pavel
Mezhayev (Saratov) in the designing field, particularly
his universal instrument which combines a signal generator
with a capacitance, inductance and circuit resonance meter.

1. Radio equipment--Design 2. Personnel--Performance

Card 1/1

Pechenyy, Kh. D.

NOVIKOV, V.A.; KICHIGIN, N.M.; PECHENYY, Kh.D.; VASIL'YEV, V.I.

Results of the use of an imported beet piler at the Malivonkovskii
Sugar Factory. Sakh. prom. 32 no.1:45-53 Ja '58. (MIRA 11:2)

L. Tsentral'nyy nauchno-issledovatel'skiy institut zukharnoy promysh-
lennosti.
(Sugar industry--Equipment and supplies)
(Loading and unloading)

PECHENYY, M.I.

Trilonometric determination of calcium salts in medicinal mixtures
with the use of the indicator, calcion IREA. Apt. delo li no.2:64-66
Mr-Ap '62. (MIRA 15:5)

1. Apteka No.5 Kiyeva.
(CALCIUM SALTS) (DRUGS—ADULTERATION AND ANALYSIS)
(CALCION IREA)

PECHENYY, M.I.

Determination of bigumal: M. I. Pechenyl. *Appl. Chem.* No. 3, No. 4, 41-2 (1946). — A soln. of 0.3 g. in 25 cc. H₂O (prepd. by heating) is cooled; 4-4 drops of cold HNO₃, and 5-7 drops of diphenylcarbazide (serving as indicator) are added and the mixt. is titrated with 0.1*N* Hg(NO₃)₂ until the ppt. changes from light-blue to blue-violet. One cc. 0.1*N* Hg(NO₃)₂ = 0.02003 g. bigumal. The change may be partly masked by the presence of N oxides and Fe salts in which case it is advisable to add a few drops of H₂O₂. 0.1*N* AgNO₃ can be used instead of Hg(NO₃)₂ with either 0.1% of an alc. soln. of fluorescein or of bromophenol blue as an indicator.

A. S. Mirkin

PACHENNY, M.I. (Irkutsk)

Quantitative determination of bigumal. Apt.delo 5 no.4:41-42
Jl-Ag '56. (MIRA 9:9)
(PALUDRINE) (CHEMISTRY, ANALYTIC--QUANITATIVE)

PECHENYY, M.I. (Irkutsk)

Some remarks on the new edition of the State Pharmacopoeia of the
USSR. Apt.delo 4 no.3:51-52 My-Je '55. (MLRA 8:8)
(PHARMACOPOEIA,
in Russia, 9th edition)

PERCHENYY, M. I.

Pharmacy and its functions. Apt. delo 3 no.6:33-34 B-D '54.
(PHARMACY,
in Russia, organiz.)
(MLRA 8:2)

PECHENYY, M.I.

Some incompatible drug mixtures with dimesdiol and spasmolytic.
Farmatsev. zhur. 19 no.5:33-38 '62.

1. Apteka No.5, Kiyev.

Pecher ST.

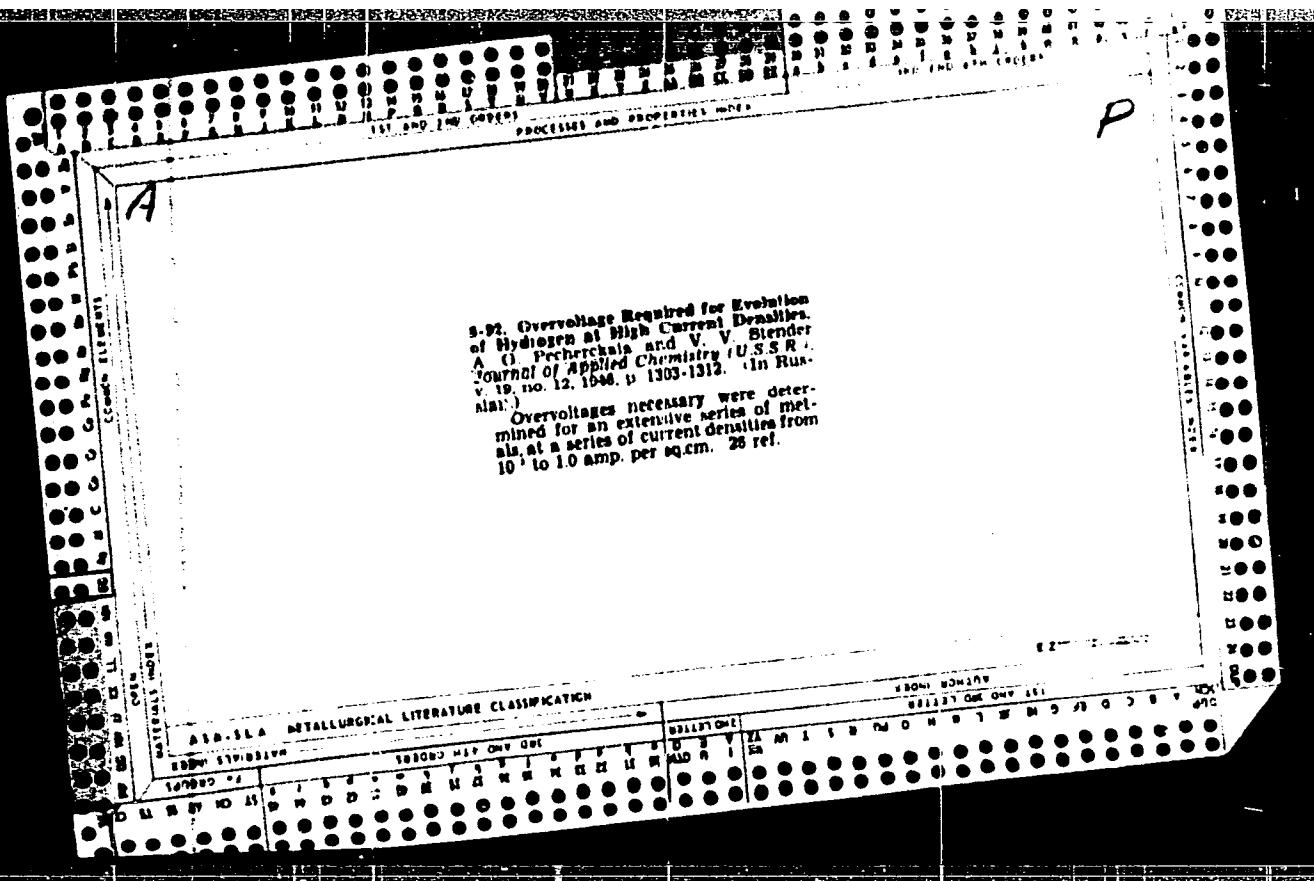
USSR

Methods of utilization and cultivation of solonchaks under the conditions of the Kirghiz S.S.R. S. I. Pecher, S. N. Zolotarev, E. A. Tonkal, R. P. Dobryak, and L. K. Dash-evali. *Trudy Pochvennoye Inst. im. V. V. Dokuchaeva, Akad. Nauk S.S.R.* 44, 367-27 (1951).—These saline soils have a mineral content that is predominantly Ca, Na, and Mg sulphate, in that order, with an av. depth of ground water of 153 cm. Irrigation removes 25% of the Mg and Cl and 50% of the Na or, expressed as total salts, 45 tons/ha. Parallel freshening of ground waters occurs. Lucerne culture lowers the level of salinization, increases the total humus content, and causes general improvement of all agro-phys. properties. Yields of garden-beet seeds and sugar-beet roots were studied. A. W. Daly

KRASOVITSKIY, M.G.; PECHERAK, L.I.

Pump for pumping out ground water filled with mud. Mekh. stroi.
18 no.11:27 N '61. (MIRA 16:7)

1. Kudinovskiy zavod keramicheskikh blokov.
(Centrifugal pumps)



MARGOLISOWA, Anna; SWIDOWSKA, Irena (Lagiewniki); Wspolpracownicy:
DADIEZ, Zygmunt(Istebna); DUTKOWSKA, A.(Rabka); BURNO-KINDT,
Zofia(Jaworze); PECHEREK, Kazimierz(Ludwikowo); HOFMAN, D.;
KLICKA, M.; PAWLOWSKA, Elzbieta; SZUSTER, Irena (Lagiewniki)

Relapses of lymph node-pulmonary tuberculosis in children
during institutional therapy. Gruzlica 30 no.6:569-577 '62,

(TUBERCULOSIS, LYMPH NODE)
(TUBERCULOSIS, PULMONARY)
(TUBERCULOSIS IN CHILDHOOD)
(ANTITUBERCULAR AGENTS)

PECHEREK, Kazimierz

Analysis of therapeutic results in bronchiectasis in children.
Folia med. Cracov. 6 no.3:371-425 '64.

PECHEREK, Kazimierz

Significance of the studies of the bronchial tree after pulmonary
resection in children. Folia med. Cracov. 6 no.4:49-54. 1961.

EXCERPTA MEDICA Sec 15 Vol 9/6 Chest Dis. June 56

1337. MOCZKOWA W. and PECHEREK K. Zakł. radiol. A.M. Poznań; Samoty, 'Staszycówka', Ludwikow. Tomograficzny obraz oskrzeli w przeprodkach gruźlicy wczłowo-płucnej u dzieci w świetle badań bronchoskopowych. Tomographic picture of the bronchi in hilar tuberculous children as related to bronchoscopic examination GRUŽLICA 1955, 23/11 (789-799) Illus. 20

The results of planigraphic and bronchoscopic examinations in children with hilar tubercles are reported and compared. Out of 742 bronchoscopied children, bronchial lesions were detected in 427, and in 117 changes at planigrams were found. The findings indicate that tomography of the bronchial tree is a complementary examination to bronchoscopy. The authors show the diagnostic value of both methods as related to the character of bronchial lesions and adjacent areas.

Authors' summary (XV, 7, 14)

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MOLL, Jan; PECHEREK, Kazimierz

Significance of pre-and post-operative bronchoscopy in
pulmonary resection in inflammatory states. *Ótolar polska*
14 no.1:69-72 '60.

1. Z oddziału Torakochirurgii Szpitala Miejskiego w Poznaniu,
Kierownik: doc. dr med. J. Moll; i z Sanatorium Przeciwgruzliczego
dla Dzieci w Ludwikowie, Dyrektor: dr K. Pecherek.
(PNEUMONECTOMY)

PECHEREK, Kazimierz; BRONIEWSKA, Janina

Vascular anomalies as a cause of diagnostic errors in pulmonary tuberculosis in children. Pediat. pol. 38 no.11:953-960 N '63.

1. Z Państwowego Sanatorium Przeciwgruzliczego dla Dzieci "Staszycówka" w Ludwikowie Dyrektor: dr med. K. Pecherek
Konsultant: prof. dr med. O. Szczepski.

(TUBERCULOSIS IN CHILDHOOD)
(TUBERCULOSIS, PULMONARY)
(HEART DEFECTS, CONGENITAL)
(THORACIC RADIOGRAPHY)
(DIAGNOSIS, DIFFERENTIAL)
(AORTIC DISEASES)

OBRAPALSKA, Ewa; PECHEREK, Kazimierz; RUDNIK, Jan; RZEPICKI, Tadeusz;
ZALEWSKA, Hanna; ZUK, Edward.

Views on surgical indications in irreversible broncho-pulmonary
changes in children. Cruzlica 33 no.8:703-708 Ag ' '.

1. Z Dziecięcego Ośrodka Sanatoryjnego- Prewentoryjnego w Rabce
(Dyrektor: dr. med. J. Rudnik).

PECHEREK, Kazimierz

Pulmonary resection in children in relation to the tracheobronchial lymph nodes; clinical aspects. Gruzlica 26 no. 78599-603 July 58.

1. Z Sanatorium Przeciwgruzliczego w Indwikuowie Dyrektor: dr K. Pecherek i z Oddzialu Torakochirurgii w Poznaniu Kierownik: doc. dr J. Moll. Adres: Sanatorium Przeciwgruzlicze dla Dzieci w Indwikuowie, poczta Mosina.

(TUBERCULOSIS, PULMONARY, in inf. & child
surg., importance of tracheobronchial lymph nodes in
resection (Pol))

DEMbinska-Widy, L.; FLORKIEWICZ, L.; PECHEREK, K.; SZCZEPSKI, O.

Diagnosis of tuberculosis in children. Polski tygod.lek.
11 no.47:1987-1992 19 Nov 56.

1. Z Kliniki Chorob Ciecięcych w Poznaniu; Kierownik: prof.
dr. T. Rafinski i z Sanatorium p. gruzliczego Staszycowka w
Ludwikowie; dyr. dr. K. Pecherek. Adres: Poznan, Klinika Chor.
Dzieci. A.M.

(TUBERCULOSIS, PULMONARY, in infant and child
diag. (Pol))

PECHEREK, Kazimierz; SZCZEPSKI, Olech; MASIAKOWSKI, Bogumił.

Pathogenesis of tuberculous meningitis. Polski tygod. lek. 12 no. 40:
1530-1531 7 Oct 57.

1. Z Państwowego Sanatorium Przeciwgruzliczego dla Dzieci Staszycowska
w Ludwikowie; dyrektor: dr Kazimierz Pecherek; konsultant pediatryczny:
doc. dr med. Olech Szczepski. adres: Poznań, ul. Magdaleny 14.

(TUBERCULOSIS, MENINGEAL, in inf. and child

bronchoscopy in)

(BRONCHOSCOPY, in inf. and child
in tuberc. meningitis)

MOCZKOWA, Wanda; PECHEREK, Kazimierz.

Tomographic bronchial changes in cases of lymph-pulmonary
tuberculosis according to bronchoscopic investigations.
Gruzlica 23 no.11:789-799 Nov. '55.

1. Z Zakladu Radiologii A.M. w Poznaniu. Kierownik: doc.dr.
B. Gladysz i z Sanatorium "Staszycowka" w Ludwikowie.
Dyrektor: dr K. Pecherek. Poznan, Aleja Przybyszewskiego 49.
(TUBERCULOSIS, PULMONARY, in infant and child,
bronchoscopy in hilar tuberc.)
(BRONSFOSCOPY, in various diseases,
tuberc., pulm. in child.)

MOCZKOWA, Wanda; PECHEREK, Kazimierz

Tomographic bronchial picture in lympho-pulmonary tuberculosis in children in the light of bronchoscopic studies. Postepy hig. med. dosw. no.2:147-148 '60.

1. Z Państw. Sanatorium Przeciwgruzliczego dla Dzieci "Staszycowka" w Ludwikowie Dyrektor: dr Kazimierz Pecherek.

(TUBERCULOSIS PULMONARY in inf & child)
(BRONCHOSCOPY in inf & child)

PECHEREK, Kazimierz

Lung resection in children. Postepy hig. med. dosw. no. 2:23-25 '60.

1. Z Oddzialu Chirurgii Torakalnej Szpitala Miejskiego w Poznaniu
Kierownik: doc. dr Jan Moll i z Panstwowego Sanatorium Przeciwgruz-
liczego dla Dzieci "Staszycowka" w Ludwikowie Dyrektor: dr Kazimierz
Pecherek.

(PNEUMONECTOMY)

ZALUTSKAYA, T.L.; PECHEREY, L.Ye.

Power dissipation in a coaxial load with an external cylindrical conductor. Trudy inst. Kom. stand., mer i izm. prib. no.53:5-9
'61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D.I.Mendeleyeva.
(Radio lines)

GREGORYEV, A.V.; ZALUTSKAYA, T.L.; PECHEREY, L.Ye.; SMIRNOV, A.I.

Errors of coaxial calorimeter-type power measuring device due to
unequivalent heat losses. Trudy inst. Kom. stand., mer i izm. prib.
no.53:10-20 '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D.I.Mendeleyeva.
(Microwaves) (Electric measurements)

S/194/62/000/003/049/066
D201/D301

AUTHORS: Zalutskaya, T. L. and Pecherey, L. Ye.

TITLE: Dissipation of power in a coaxial load with an external conductor of cylindrical shape

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 3, 1962, abstract 3zh196 (Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR, 1961, no. 53 (113), 5-9)

TEXT: The distribution of power along the load is studied as dependent on the relative lengths of the load and of the wave. Starting with current and voltage distribution along a short-circuited loss line, the authors derive an equation for power transmitted through any cross-section perpendicular to the line. It is shown that when the length l of the line is small as compared with the wavelength, the power distribution along the line is a linear function of the distance. A simplified formula for the ratio of power at any load cross-section to the power supplied at the input is

Card 1/2

Dissipation of power ...

S/194/62/000/003/049/066
D201/D301

given: $P/P_1 = \exp [-2\alpha(x-1)]$, where x - the actual coordinate

along the load axis, α - attenuation coefficient. The calculation of power distribution was made along a load having a length $l = 0.7$ cm, for the frequency band 150 - 1000 Mc/s; the calculation shows that the distribution of power along a given load is in satisfactory agreement with that of a low frequency alternating current. [Abstracter's note: Complete translation.]

Card 2/2

PECHERIN, A.I.

Stands of lopsided trees in Kamchatka forests. Priroda 52
no.7:118 J1 '63. (MIRA 16:8)

1. Gor'kovskiy pedagogicheskiy institut.
(No subject headings)

PICHERIN, A. I., kand. geograf. nauk (Gor'kiy)

Burning mountains on the Amur River. Priroda 52 no.1:84
'63. (MIRA 16:1)

(Amur Valley)

PECHERIN, A.I.

Coarse boulders in the In'va Basin. Trudy Kom.chetv.per. no.26:
129-132 '61. (MIRA 15:3)
(In'va Valley--Boulders)

PECHERIN, A.I., kand.geograf.nauk (Gor'kiy)

Lava plateau. Priroda 51 no.2:115-116 F '62. (MIRA 15:2)
(Siberia, Western--Geology, Structural.)

PECHERIN, A.I., kand. geograf. nauk

Geomorphology of the lower Amur plain. Amur. sber. no. 1:121-
125 '59. (KRA 14:2)

1. Deystvitel'nyy otdel Geografičeskogo otdelenija SSSR.
(Amur Valley--Physical Geography)

PECHERIN, A. I.

Dissertation: "Geomorphology of the In'va River Basin." Cand Geog Sci, Molotov State U,
Molotov, 1953. Referativnyy Zhurnal--Geologiya, Geografiya, Moscow, Jul 54.

SO: SUM No. 356, 25 Jan 1955

Pecherin, M.F.

Template for measuring the wear of rails. Put' i put.khoz. 6
no.12:29 '62. (MIRA 16:1)

1. Inzhener distantsii, st. Kisel, Sverdlovskoy dorogi.
(Railroads--Rails--Testing)

CHERNORUTSKIY, G.S.; FATEYEV, A.V., prof., doktor tekhn. nauk,
retsenzent; PECHERINA, I.N., kand. tekhn. nauk, retsenzent;
DUGINA, N.A., tekhn. red.

[Electromechanical automatic control systems; Structure of
automatic control systems. Transfer characteristics of electro-
mechanical elements. Calculation of the control error] Elektro-
mekhanicheskie sistemy avtomaticheskogo regulirovaniia: Struktura
CAP. Peredatchnye svoistva elektromekhanicheskikh elementov.
Raschet oshibki regulirovaniia. Moskva, Mashgiz, 1952. 126 p.
(MIRA 16:3)

(Automatic control)

38265 PECHERITSA, P.

Kuban' - v Bor'be za khleb. Zagotovki s.-kh. produktov, 1949, No 2, s. 25-28

PECHERITSA, S.P., Inst. (Leningrad)

Calculation of the magnetic fields of an asynchronous motor
taking into account the toothed structure of the stator and
rotor. Elektrichestvo no.3:66-70 Mr '65.

(MIRA 18:6)

SEGHERSSEN, S.P., Inst.

Calculation of the asynchronous moments of a three-phase induction motor. Elektrotehnika 36 no. Pt 57-58 Aug '65. p. 16-17.

Pecherista, V., starshiy leytenant (g. Sevastopol')

Stronger than metal. Voen.znan. 38 no.12:10-11 D '62.

(MIRA 15:12)

(Atlantic Ocean—Stores)

PECHERITSA, V.D. (Klyev); BURCHINSKIY, G.I., prof., nauchnyy rukovoditel'

Dynamics of the function of external respiration during the treatment with aerosols of antibiotics and spasmolytic preparations. Vrach.delo no.4:52-56 Ap'63. (MIRA 16:7)
(RESPIRATORY ORGANS--DISEASES) (AEROSOL THERAPY)
(ANTISPASMODICS) (ANTIBIOTICS)

PECHERKIN, A.G., inzh.

Practice of mechanization of charging and stemming boreholes
in open-pit workings. Vzryv. delo no. 51/8:426-441 '63.
(MIRA 16:6)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy
institut gornogo i obogatitel'nogo oborudovaniya.
(Strip mining)
(Blasting—Equipment and supplies)

PECHERKIN, A.G., gornyy inzh.; TEREKHIN, V.N.

Mechanization of charging and stemming blastholes in asbestos mines.
Gor. zhur. no.6:44-47 Je '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk (for Pecherkin).
2. Glavnyy inzh. tresta Soyuzasbest (for Terekhin).

PECHERKIN, A.G., gornyy inzh.

Apparatus for charging and stemming boreholes in open
pits. Gor. zhur. no.6:54-55 Je '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy
institut gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk.
(Blasting--Equipment and supplies)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239810014-2

PECHERKIN, I.A.; KARZENKOV, G.I.

Underground and shaft waters in the Kizel karst region. Trudy MOIP
12:142-150 '64. (MIRA 18:1)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239810014-2"

PECHERKIN, I.A.; MATARZIN, Yu.M.

Chemical geography of the Kama portion of Perm-Saigatka
(Votkinsk Reservoir). Khim.geog. no.1, '61. (MIRA 16:3)
(Votkinsk Reservoir--Geochemistry)

PECHERKIN, I.A.

Karst on the shores of the Kama Reservoir. Izv.AN SSSR.Ser.geog.
no.3:63-68 My-Je '61. (MIRA 14:5)

1. Permskiy gosudarstvennyy universitet.
(Kama Reservoir-Karst)

PECHERKIN, I.A.

Mine waters of the Kizel coal basin. Trudy, Gor.-geol. inst.
UFAN SSSR no. 46:79-92 '30. (NIIA: 14:2)
(Kizel Basin—Mine waters)

DUBROVIN, L.I.; MATARZIN, Yu.M.; PECHERKIN, I.A.; NIKOLAYEV, S.F., red.;
SYCHKIN, A.M., tekhn.red.

[Kama Reservoir] Kamskoe vodokhranilishche. Perm', Permskoe
knizhnoe izd-vo, 1959. 159 p. (MIRA 13:6)
(Kama Reservoir)

PECHIKIN, I. A.

PECHIKIN, I. A.: "Geopressure and mine-shaft waters in the Kuznetsk basin-coal basin". Molochny, 1991. In: Higher Education Press. Molochny State University A. N. Gor'kiy, Chair of Dynamic Geology and hydrogeology. (Dissertations for the degree of Candidate of Geological-Mining and Mineral Sciences)

See: Knizhnaya letopis', No. 16, 24 December 1995. Moscow.

MAKSIMOVICH, G.A., prof., red.; BALKOV, V.A., dots., red.;
VASIL'YEV, B.V., dots., red.; COREUNOVA, K.A., dots.,
red.; MATVEIEV, B.K., dots., red.; MIKHAYLOV, G.K.,
inzh., red.; OBORIN, V.A., dots., red.; PECHERKIN, I.A.,
dots., red.; STARTSEV, V.S., dots., red.; SHIMANOVSKIY,
L.A., inzh., red.

[Methods for studying karst; transactions] Metodika izu-
cheniya karsta; trudy. Perm', Permskii gos. univ.
Nos. 2, 4, 5, 10. 1963. (MIRA 17:12)

1. Vsesoyuznoye soveshchaniye po metodike izucheniya
karsta.

~~PECHERKIN, I.P.~~

Technological reequippment of the light industry in the Moldavian
S.S.R. Leg. prom. 16 no.1:17-18 Ja '56. (MLRA 9:6)

1. Nachal'nik proizvodstvenno-tehnicheskogo otdela Ministerstva
legkoy promyshlennosti Moldavskoy SSR.
(Moldavia--Manufactures--Equipment and supplies)

PROCHERKIN, K.I.; Yeremin, N.N., otvetstvennyy red.

[Ul'yanovsk Economic Region] Ul'ianovskii ekonomicheskii administrativnyi raion. Ul'ianovsk, 1957. 29 p.
(MIRA 11:4)
(Ul'yanovsk Province--Economic conditions)

L 35893-50 EnT(m)/EnP(n, /i) EnP(t)/EnI Jjr(c) JH/JD

ACC NR: AP6007359

SOURCE CODE: UR/0126/66/021/002/0309/0310

S/
P

AUTHORS: Pavlov, V. A.; Mel'nikova, V. V.; Pocherkina, N. I.

ORG: Institute of the Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: The appearance of pores during creep ✓

SOURCE: Fizika metallov i metallocovedeniye, v. 21, no. 2, 1966, 309-310

TOPIC TAGS: creep, creep mechanism, silver, copper, aluminum, metal physical property

ABSTRACT: The increase in pore density during creep as a function of the energy of packing defect was determined for silver, copper, and aluminum. The investigation supplements the results of Ya. D. Vishnyakov and Ya. S. Umanskiy (FMM, 1963, 16, 632). The pore density was determined by means of microscopy and bulk density measurements, and the experimental results are presented graphically (see Fig. 1). The creation of

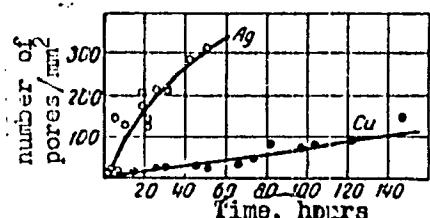


Fig. 1. Dependence of pore density on the duration of creep for silver tested at 500°C and copper tested at 575°C.

Card 1/2

UDC: 539.376

L 35898-56

ACC NR: AP6007359

pores in the metal during creep is strongly dependent on the magnitude of the defect packing energy. No increase in pore density or decrease in bulk density, as a result of creep, was detected in aluminum. It is suggested that further studies are required before a conclusion as to the causes of pore formation can be drawn. Orig. art. has: 2 graphs.

SUB CODE: 11/ SUBM DATE: 18Mar65/ ORIG REF: 003/ OTH REF: 001

Card 2/2 *llb*

PSHENICHNOV, A.V.; PSHENICHNOV, R.A.; PECHERKINA, S.A.; PLAKSINA, A.N.

Cultivation of some pathogenic Rickettsia on noncellular polysynthetic
nutrient media. Zhur. mikrobiol., epid. i immun. 41 no.3:3-7 Mr '64.
(MIRA 17:11)

1. Permskiy institut vaktsin i syvorotok i Permskiy meditsinskiy in-
stitut.

PECHERKINA, S.A.

USSR/Virology. Bacterial Viruses.

E-1

Abs Jour: Ref. Zhur. Biol., No 7, 1957, 28704

Author : Pecherkina, S.A.

Inst : Not given

Title : Effect of X-Protein Bacteriophage on Provacheck's Rickettsia.

Orig Pub: Vozdeystvie Kh-protelnogo bakteriofage na rikketskii Provacheka. Tr. Molotovsk. med in-ta, 1957, No 26, 208-210.

Abstract: X-protein bacteriophage exerts no influence on Provacheck's rickettsia either in viyro or in the organism of typhus lice.

Card : 1/1